

ArcelorMittal Tailings Storage Facilities

Template provided by the Church of England Pension Board and Swedish Council of Ethics - June 7, 2019

	1. «Tailings Facility» Name/Identifier TSF- Tailings Storage Facility	2. Location	3. Ownership	4. Status	5. Date of initial operation	6. Is the Facility currently operated or closed as per currently approved design?	7. Raising method	8. Current Maximum Height	9. Current Tailings Storage Impoundment Volume	10. Planned Tailings Storage Impoundment Volume in 5 years time.	11. Most recent independent Expert Review and currently planned.	12. Do you have full and complete relevant engineering records including design, construction, operation, maintenance and/or closure.	13. What is your hazard categorisation of this facility, based on consequence of failure?	14. What guideline do you follow for the classification system?	15. Has this facility, at any point in its history, failed to be confirmed or certified as stable, or experienced notable stability concerns, as identified by an independent engineer (even if later certified as stable by the same or a different firm).	16. Do you have internal/in house engineering specialist oversight of this facility? Or do you have external engineering support for this purpose?	17. Has a formal analysis of the downstream impact on communities, ecosystems and critical infrastructure in the event of catastrophic failure been undertaken and to reflect final conditions? If so, when did this assessment take place?	18. Is there a closure plan in place for this dam, and b) does it include long term monitoring?	19. Have you, or do you plan to assess your tailings facilities against the impact of more regular extreme weather events as a result of climate change, e.g. over the next two years?	20. Any other relevant information and supporting documentation. Please state if you have omitted any other exposure to tailings facilities through any joint ventures you may have.
1	Serra Azul TSF - A valley-filled embankment	Lat 20 ° 8'17.1 «S / Long 44 ° 23'43.1» W	ArcelorMittal Brasil - Serra Azul Mine	Dormant	1987	Yes, with added improvements	Upstream method	89 m	5.8 Mm3	No - deposition ceased	Mar-19, next planned Aug-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Class III High potential for environmental damage; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	COPAM - DN 87/2005, Brazilian legislation	Yes, stability questioned in 2012, the dam was closed and additional geotechnical analysis, through monitoring (remote instrumentation, drone surveys, etc) employed. Whilst the company intends to remove the dam the company continues to investigate and analyse.	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, March 2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
2	Serra Azul Dry Stack - A valley-filled embankment	Lat 20134665° / Long 44.402030°	ArcelorMittal Brasil - Serra Azul Mine	Active	2012	Yes	Dry Stack	64 m	3.08 Mm³	1 Mm³	Feb-18, next planned Aug-19	Yes	Class II, Low Risk, Medium potential for environmental damage; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	366/1990/036/2014 - SUPRI - Brazilian Legislation	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Dry Stack so not applicable	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
3	Serra Azul In-Pit TSF	Lat 20.130803° / Long 44.402878°	ArcelorMittal Brasil - Serra Azul Mine	Active	2015	Yes	In-pit TSF, no embankments	n/a - below Natural Ground Level	0.5 Mm3	No - used as temporary storage, dewater and remin the tailings	Feb-18, next planned Aug-19	n/a	n/a - below Natural Ground Level; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	366/1990/036/2014 - SUPRI - Brazilian Legislation.	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Exhausted Pit so not applicable	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
4	Las Truchas TSF - A valley-filled embankment	Lat 18° 2'56.05»N/Long 102°20'27.02»W	ArcelorMittal las Truchas, S.A. de C.V.	Active	1975	Yes, with added improvements	Downstream, valley-filled embankment	43 m	15 Mm3	No - deposition to cease in under 5 years	Feb-18, next planned Aug-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Very high as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, March 2016	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
5	Guasimas TSF - A valley-filled embankment	Lat 19°21'6.74»N/ Long 104° 4'38.84»W	Pena Colorada Servicios SA DE CV. Tailoring of joint venture company between ArcelorMittal and Ternium.	Active	1975	Yes, with added improvements	A valley-filled embankment with modified construction methods	55 m	51 Mm3	No - deposition to cease in under 5 years	Mar-18, next planned Aug-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Very high as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	Yes, due to legislative changes the dam has undergone additional physical modifications (toe buttress) to meet International Standards. Work to be completed in H2/19	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, May 2017	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
6	Arrayanal TSFs - Basin 1, 11 valley-filled embankments (upper cell)	Lat 19°17'35.02»N/ Long 104° 8'22.76»W	Pena Colorada Servicios SA DE CV. Tailoring of joint venture company between ArcelorMittal and Ternium.	Active	2013	Yes, with added improvements	Downstream, valley-filled embankments	60 m	17.5 Mm3	54 Mm3 total capacity between Basin 1 & 2	Mar-18, next planned Aug-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Extreme as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	Yes, due to legislative changes the dam has undergone additional physical modifications (toe buttress) to meet International Standards. Work to be completed in H2/19	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, Feb-2018	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
7	Arrayanal TSFs - Basin 2, 8 valley-filled embankments (lower cell)	Lat 19°17'39.86»N / Long 104° 8'33.06»W	Pena Colorada Servicios SA DE CV. Tailoring of joint venture company between ArcelorMittal and Ternium.	Active	2018	Yes	Downstream, valley-filled embankments	42 m	3.8 Mm3	54 Mm3 total capacity between Basin 1 & 2	Mar-18, next planned Aug-19	Yes	Extreme as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, Feb-2018	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
8	Kryvyi Rih Tailings Facility - Myra	Lat 47°49'29.65»N/ Long 33°24'32.03»E	ArcelorMittal Kryvyi Rih	Active	1976	Yes	Paddock dam with modified construction methods	65 m	2.6 Mm3 to level 155.0 m	46.7 Mm3 between Myra, Karta 4 and Centralnoie	July-18, next planned June-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Extreme as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, 2015, being updated Q3 -2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.

ArcelorMittal Tailings Storage Facilities (continued)

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9	Kryvyi Rih Tailings Facility - Karta 4	Lat 47°47'50.84»N/ Long 33°22'29.77»E	Arcelor Mittal Kryvyi Rih	Active	1971	Yes	Paddock dam with modified construction methods	71 m	7.61 Mm3 for level 166.0 m	46.7 Mm3 between Myra, Karta 4 and Centralnoie	July-18, next planned June-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Extreme as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, 2015, being updated Q3 -2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
10	Kryvyi Rih Tailings Facility - Centralnoie	Lat 47°49'37.91»N/ Long 33°23'40.30»E	Arcelor Mittal Kryvyi Rih	Active	2005	Yes	Downstream method	11 m	4.0 Mm3	46.7 Mm3 between Myra, Karta 4 and Centralnoie	July-18, next planned June-19	Yes	High for Centralnoie as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, 2015, being updated Q3/4 -2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
11	Temirtau Tailings Facility - Ash Pond,	Lat 50° 2'1.29»N/ Long 73° 5'11.44»E	ArcelorMittal Temirtau - Coal Division	Active	1960	Yes, with added improvements	Sidehill dam with modified construction methods	25 m	88 Mm3	5.4 Mm3	June-18, next planned August -19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Extreme as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	No, plan to do this in Q3-2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
12	Temirtau Tailings Facility - Coal Wash	Lat 50° 1'6.70»N/ Long 73° 5'53.71»E	ArcelorMittal Temirtau - Steel Division	Active	1993	Yes, with added improvements	Downstream method	21 m	15.2 Mm3	2.43 Mm3	June-18, next planned Aug-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Extreme as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	No, plan to do this in Q3-2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
13	Temirtau Tailings Facility - TSF 2 constructed as sidehill dam	Lat 50° 0'37.06»N/ Long 73° 5'10.02»E	ArcelorMittal Temirtau - Steel Division	Dormant	1979	Yes, with added improvements	Sidehill dam with modified construction methods	29 m	22.63 Mm3	No - deposition ceased	June-18, next planned Aug-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Very high as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	No, plan to do this in Q3/ Q4-2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
14	Vostochnaya Tailings Facility - TSF 2 constructed as paddock dams	Lat 49°41'53.52»N/ Long 72°46'27.53»E	ArcelorMittal Temirtau - Coal Division	Active	2015	Yes	Segmented ring dike	12 m	10 Mm3	6 Mm3	June-18, next planned Aug-19	Yes	Very high as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, May 2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
15	Vostochnaya Tailings Facility - TSF 1	Lat 49°44'56.17»N/ Long 72°46'0.08»E	ArcelorMittal Temirtau - Coal Division	Dormant	1972	Yes	Segmented ring dike	15 m	7.4 Mm3	No - deposition ceased	June-18, next planned Aug-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Very high as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, May 2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
16	Lisakovsk Tailings Facility - TSF 1	Lat 52°32'30»N/ Long 62°45'E	Orken LLP Iron ore Division/ ArcelorMittal Temirtau	Active	1972	Yes	Sidehill embankment	26 m for Main TSF and 5.3 m for Emergency TSF	14.2 Mm3 for Main TSF and 0.204 Mm3 of water for Emergency TSF (storing only water and no tailings)	15.3 Mm3 for Main TSF and 0.3 Mm3 for Emergency TSF	Oct-18, next planned Aug-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	High for both facilities as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, May-2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.

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17	Omarska Mine - Gradina Lake TSF	Lat 44°50'48.14»N/ Long 16°54'39.37»E	ArcelorMittal Prijedor	Dormant	1985	Yes	Cross-valley embankment with downstream raise	27 m	8 Mm3	No - deposition ceased	July-18, next planned Aug-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Extreme as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	No, plan to do this in Q3-2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
18	Omarska Mine - Jezero In-pit TSF	Lat 44°52'3.83»N/ Long 16°52'32.49»E	ArcelorMittal Prijedor	Active	2015	Yes	In-pit TSF with constructed cross-valley embankment	6 m	25.4 Mm3 (19.9 Mm3 of waste and 5.5 Mm3 of water)	No - deposition to cease in under 5 years	July-18, next planned Aug-19	Yes	Very high as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	yes, 2016	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
19	Mont Wright Tailings Facility Complex forming by 8 embankments constructed as sidehill and valley-filled embankments	Lat 52°47'53.75»N/ Long 67°23'11.97»W	ArcelorMittal Mining Canada GP	Active	1981	Yes	Sidehill/ valley-filled embankments	100 m (Dam Hesse)	725 Mm³	34 Mm³/year 170 Mm³ / 5 years	Aug-18, next planned Sept-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Very high as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, 2014, being updated Q3/Q4 - 2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
20	Port Cartier TSF - 3 cells with 2 cells used for tailings storage (Basin Superior and Basin Inferior) and 1 cell used as sedimentation basin (Parc B)	Lat 50° 2'37.18»N/ Long 66°47'20.16»W	ArcelorMittal Mining Canada GP	Active	1978	Yes	Sidehill embankment	24 m (Dyke 3)	4.2 Mm³	Upper and lower basin (end of 2018): 4.1 Mm³ Park C, Dry storage (2019 @ 2024): 1.4 Mm³	Aug-18, next planned Sept-19	Yes, construction history is being reviewed and validated through new studies which are currently underway	Very high as per CDA dam classification; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	Canadian Dam Association	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, 2016, being updated Q3/Q4 - 2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
21	Minorca Mine - Upland TSF constructed as paddock-type facility comprising	Lat 47°35'25.33»N/ Long 92°27'25.47»W	ArcelorMittal Minorca Mine Inc.	Active	1977	Yes	Paddock dams with modified construction methods	28 m	91 Mm3	106 Mm3	May-19 - next planned May- 20	Yes	Moderate as per ICOLD hazard rating; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	ICOLD	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Yes, 2018	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
22	Minorca Mine - In-pit TSF	Lat 47°32'19.95»N/ Long 92°30'44.16»W	ArcelorMittal Minorca Mine Inc.	Active	2001	Yes	Centerline construction with modified construction methods	n/a - below Natural Ground Level	32 Mm3	32 Mm3	May-19 - next planned May-20	Yes	Moderate as per ICOLD hazard rating; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	ICOLD	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	n/a - below Natural Ground Level	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
23	Hibbing Taconite TSF is a paddock-type facility consisting of three cells (West and East cells, and a clear water reservoir) formed by dam walls	Lat 47°30'0.76»N/ Long 92°59'1.45»W	Hibbing Taconite Company - A jointed venture company of ArcelorMittal, Cliffs Natural Resources and US Steel Canada.	Active	1974	Yes	Modified construction methods	43 m from 32m	846 Mm3	946 Mm3	May-19 - next planned May-20	Yes	Moderate as per ICOLD hazard rating; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	ICOLD	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	2014, to be updated in 2019	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.
24	Thabazimbi TSF is a paddock-type facility consisting of four cells.	Lat 24°37'0.38.85»S/ Long 27°23'46.61»E	Thabazimbi Iron Ore Mine - A fully owned subsidiary of ArcelorMittal South Africa	Dormant	1977	Yes	Paddock spraybar with upstream wall construction	4 dams with heights ranging from 11 m to 36 m.	5.8Mm3	No - deposition ceased	Dec-16, next planned Aug-19	Yes	Low hazard potential as per SANS; risk is managed by employing strong governance model based on MAC guidelines for TSFs and governance and stewardship model providing 3 levels of auditing	SANS 10286: 1998	No	Yes for both, current governance and stewardship model provides 3 levels of auditing (internal, external and 3rd Party)	Code of practice indicates no communities affected by zone of influence.	Yes and Yes	Yes	Annual Dam Audits carried out as part of current governance and stewardship model highlighting additional studies/measures to be implemented to address/ reduce risk.